STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.FR24	1	

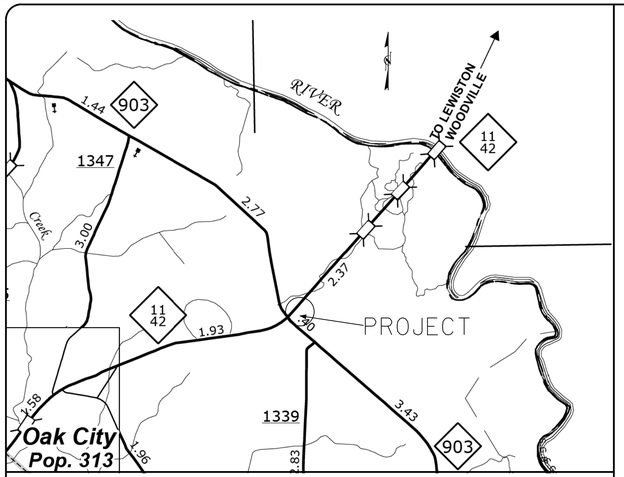
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
50138.1.FR24		PE
50138.2.FR24		R/W
50138.3.FR24		CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

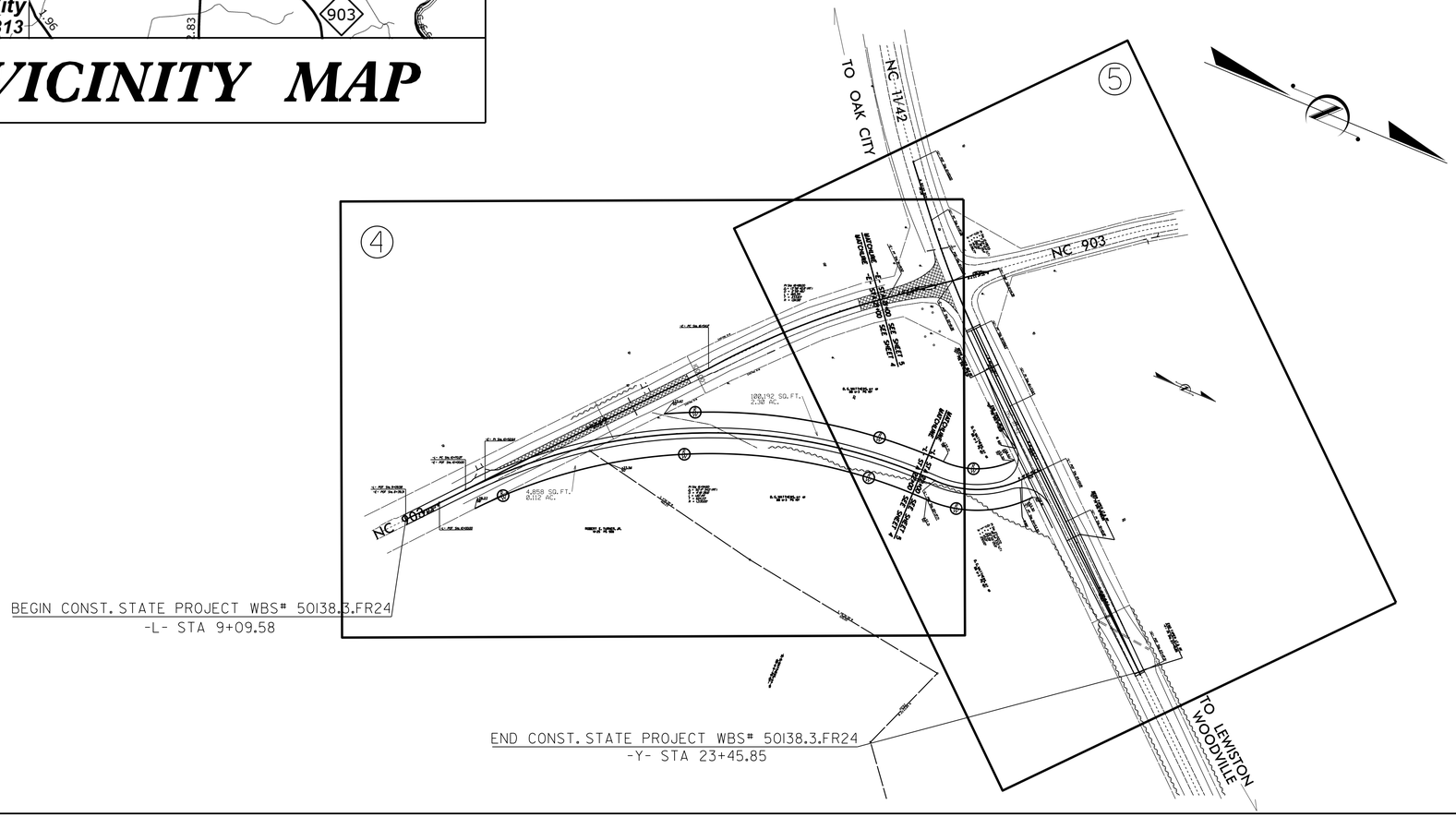
MARTIN COUNTY

LOCATION: ***INTERSECTION OF NC 11/42 & NC 903***

TYPE OF WORK: DRAINAGE, GRADING, BASE, PAVING & RESURFACING.



VICINITY MAP



GRAPHIC SCALES

50 25 0 50 100
PLANS

PROJECT LENGTH

LENGTH STATE PROJECT WBS# 50138.3.FR24 =0.29 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 9, 2015

LETTING DATE:

BARRY HOBBS, PE
DIVISION PROJECT MANAGER

CHRIS SLACHTA
DIVISION PROPOSALS ENGINEER

S. P. FENWICK, PLS
DIVISION DESIGN ENGINEER

WBS ELEMENT: 50138.3.FR24

CONTRACT: DA00248

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
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INDEX OF SHEETS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 11 - TRAFFIC CONTROL	
1101.02	TEMPORARY LANE CLOSURES

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11/01/11

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE: HALIFAX ELECTRIC MEMBERSHIP CORP.

CENTURY LINK - TELEPHONE, AT&T - TELEPHONE FIBER OPTICS

PIEDMONT NATURAL GAS CO.

MARTIN COUNTY WATER DEPARTMENT

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON PLANS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

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12/05/11

PROJECT REFERENCE NO.	SHEET NO.
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Note: Not to Scale

S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H–Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

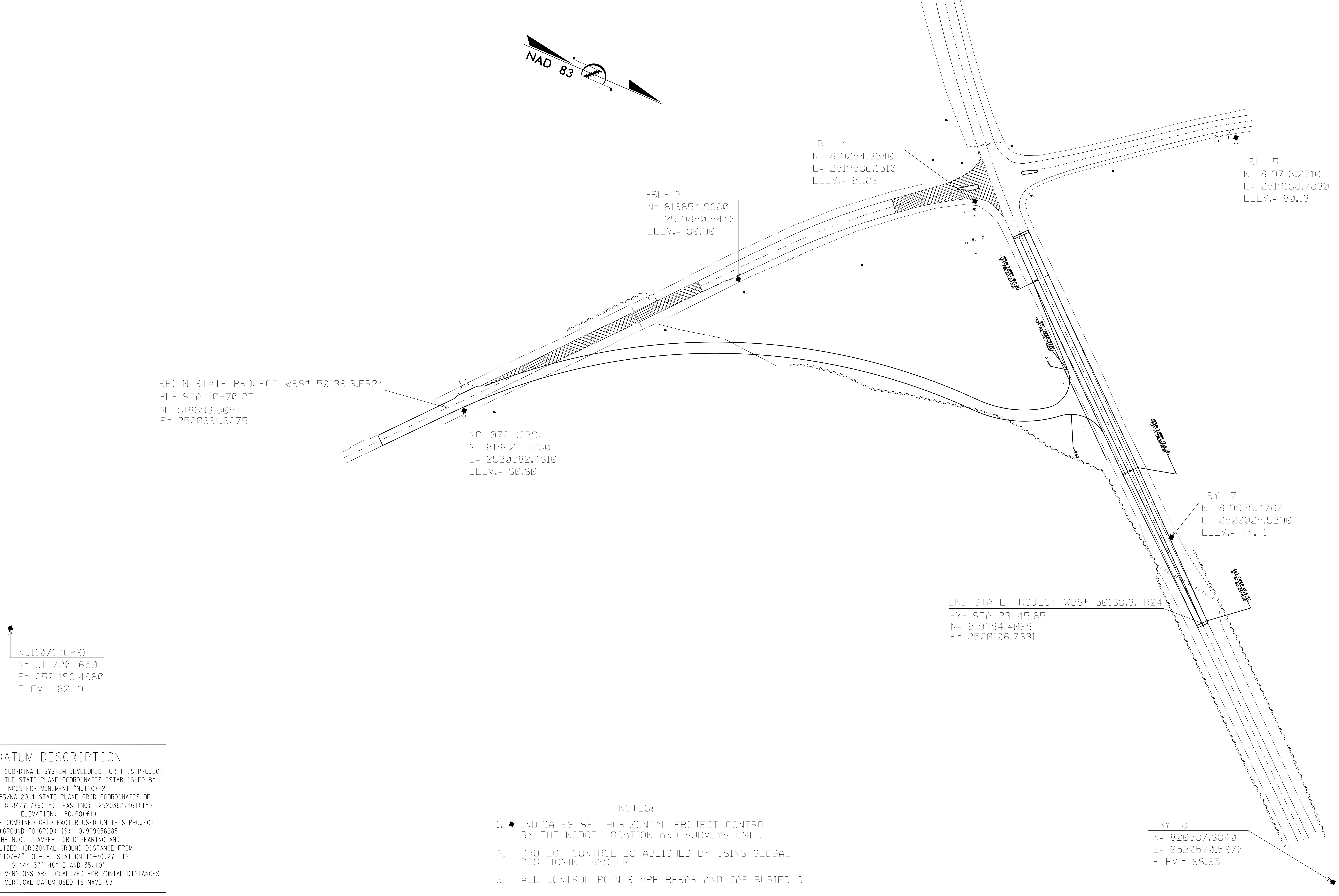
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	1-C

SURVEY CONTROL SHEET



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "NC1107-2"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 818427.776(ft) EASTING: 2520382.461(ft)
ELEVATION: 80.60(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999956285
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "NC1107-2" TO -L- STATION 10+70.27 IS
S 14° 37′ 48″ E AND 35.10′
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTES:

1. ◆ INDICATES SET HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL ESTABLISHED BY USING GLOBAL POSITIONING SYSTEM.
3. ALL CONTROL POINTS ARE REBAR AND CAP BURIED 6".

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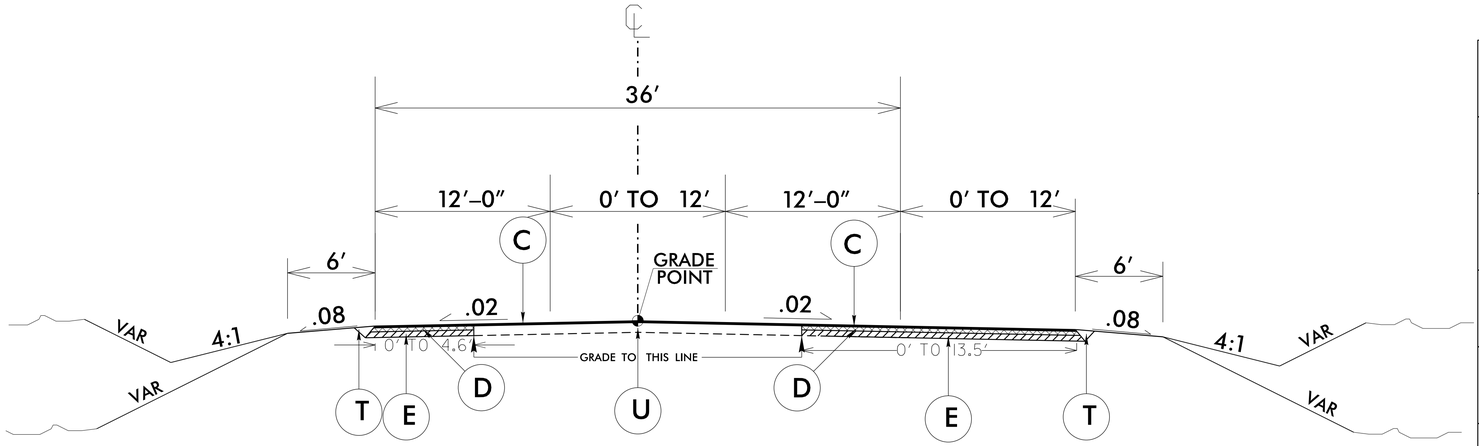
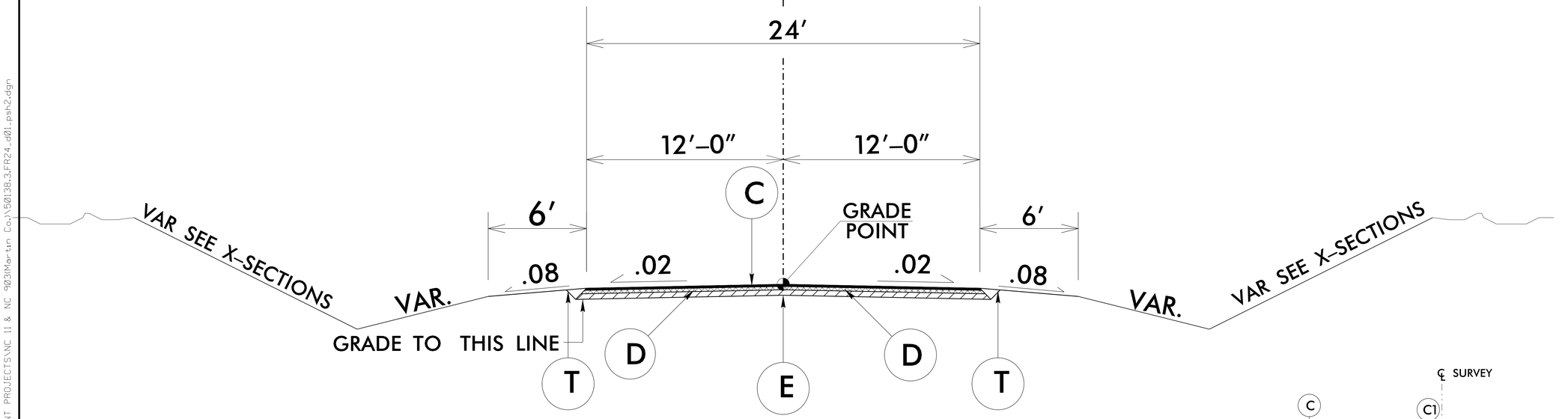


USE TYPICAL SECTION NO. 2 AT
-Y- STA 14+29.63 TO -Y- STA 23+45.85

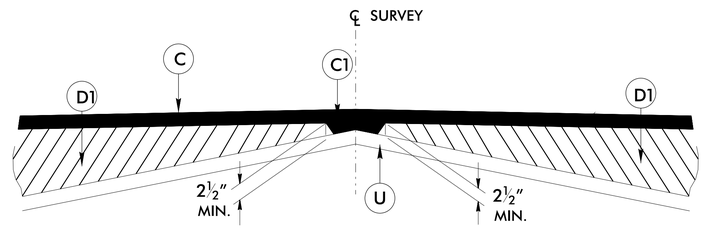
PAVEMENT SCHEDULE

C	PROP. APPROX. 1½″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C1	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1″ DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2″ IN DEPTH.
D	PROP. APPROX. 2½″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D1	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE OF 114 LBS. PER SQ. YD. PER 1″ DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½″ IN DEPTH OR GREATER THAN 4″ IN DEPTH.
E	PROP. APPROX. 4″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0B AT AN AVERAGE RATE OF 465 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



USE TYPICAL SECTION NO. 1 AT
-L- STA 9+09.58 TO -L- STA 25+04.81



Detail Showing Method of Wedging

PROJECT NO.	SHEET NO.
50138.3.FR24	**3**

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	CONSTRUCTION SURVEYING LS	UNDERCUT EXCAVATION CY	GRADING LS	FOUNDATION CONDITIONING MATERIAL, MINOR STRS TONS	FOUNDATION CONDITIONING GEOTEXTILE SY	18" SIDE DRAIN LF	18" RC PIPE CULVERT, CLASS IV LF	36" RC PIPE CULVERTS, CLASS IV LF	INCIDENTAL STONE BASE TONS	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TONS	RIP RAP, CLASS B TONS	GEOTEXTILE FOR DRAINAGE SY	TEMPORARY SILT FENCE LF	TEMPORARY MULCHING ACR	MATTING FOR EROSION CONTROL SY	COIR FIBER WATTLE LF	POLYACRYLAMIDE (PAM) LB	SEED & MULCHING AC	FERTILIZER FOR REPAIR SEEDING TON
50138.3.FR24	Martin	1	NC 903, NC 11	@ INTERSECTION NC 11/42	1&2	2	2WU	NO	NO	0.285	24	1	1	3,756	1	22	200	20	104	70	20	280	1,279	706	738	134	10	42	80	3	400	100	3	3	0.5
GRAND TOTAL												**1**	**1**	**3,756**	**1**	**22**	**200**	**20**	**104**	**70**	**20**	**280**	**1,279**	**706**	**738**	**134**	**10**	**42**	**80**	**3**	**400**	**100**	**3**	**3**	**0.5**

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	8" X 90 M YELLOW THERMO LF	THERMO STR ARROW 90 M EA	THERMO LT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" YELLOW PAINT LF	PAINT LT ARROW EA	PAINT STR ARROW EA	CRYSTAL & RED MARKERS EA	YELLOW & YELLOW MARKERS EA
50138.3.FR24	Martin	1	NC 903, NC11	@ INTERSECTION NC 11/42	1&2	2	2WU	0.285	24	1	4,951	6,784	310	2	1	4,951	6,784	310	1	2	3	44
TOTAL FOR PROJECT										**1**	**4,951**	**6,784**	**310**	**2**	**1**	**4,951**	**6,784**	**310**	**1**	**2**	**3**	**44**
GRAND TOTAL										**1**	**4,951**	**6,784**	**310**	**3**		**11,735**		**310**	**3**		**47**	

COMPUTED BY:	DATE:
CHECKED BY: SPF	DATE: 4-20-2015

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

SUB-REGIONAL & REGIONAL LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
-L- 16+25.00	LT	1																	
-L- 17+89.31	CL	2			74.90'	74.60'													
-L- 24+05.36	CL	3			76.57'	75.57'													

STATION	C.S. PIPE 12" (.064)	15" (.064)	18" (.064)	24" (.064)	36" (.079)	42" (.109)	48" (.109)	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	48"
-L- 16+25.00														
-L- 17+89.31														
-L- 24+05.36														

STATION	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"	**" R. C. PIPE (CLASS V)	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE
-L- 16+25.00													20'
-L- 17+89.31						70'							
-L- 24+05.36			104'										

STATION	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN. *FT. A 5.0' THRU 10.0'	LIN. *FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET
-L- 16+25.00											
-L- 17+89.31											
-L- 24+05.36											

STATION	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
-L- 16+25.00										
-L- 17+89.31										
-L- 24+05.36										

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 11+00	-L- 24+50	7376 CY	448 CY		6928 CY
-Y- 14+50	-Y- 22+65.70	228 CY	452 CY	224 CY	
SUBTOTALS:					
SUBTOTALS:					
SUBTOTALS:					
PROJECT TOTALS:		7604 CY	900 CY	224 CY	6928 CY
GRAND TOTALS:		7604 CY	900 CY	224 CY	6928 CY

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-E-	10+82	16+00	CL	1,162.92
-E-	20+50	22+63	CL	1,104.52
			TOTAL:	2,267.44
			SAY:	2,270.00

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	3-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	R / W TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	TEMPORARY CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	PERMANENT UTILITY EASEMENT	PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	R / W TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	PERMANENT UTILITY EASEMENT
1	ROBERT E. TURNER, JR		30,321 SF																
2	D.G. MATTHEWS & SONS, INC.		122,437.6 SF																

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PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	4

8/17/99

ASP. PAV. REMOVAL
GRADE TO DRAIN
SEED AND MUCLH

RETAIN PAVEMENT FROM
-E- STA 16+00 TO
-E- STA 20+50

MATCHLINE -E- STA 21+00 SEE SHEET 5

PI Sta 18+88.00
Δ = 13° 56' 42.8" (RT)
D = 2° 59' 48.1"
L = 465.35'
T = 233.83'
R = 1,911.96'

-E- PC Sta. 16+54.17

ASP. PAV. REMOVAL
GRADE TO DRAIN
SEED AND MUCLH

EXISTING R/W

+73.47
50'

+89.31
40' LT

7.2 SQ YD FILTER FABRIC
1.8 TONS CLASS B RIP RAP

INV. 36" RCP = 74.90'

72' - 36" RCP

INV. 36" RCP = 74.60'
+95.60
32' RT

21.7 SQ YD FILTER FABRIC
5.4 TONS CLASS B RIP RAP

27.03'
TYP.

Sta.20+77.20

H.P.

D. G. MATTHEWS, et al
DB U-3 PG 197

D. G. MATTHEWS, et al
DB U-3 PG 197

MATCHLINE -L- STA 22+00 SEE SHEET 5

RETAIN DRIVEWAY & ACCESS

-E- PI Sta. 10+52.64

-L- PC Sta. 10+70.27
-E- POT Sta. 10+00.00

-L- POT Sta. 9+09.58
-E- POT Sta. 8+39.31

+70.27
50'

-L- Sta.11+23.61

-L- Sta.10+61.81

15.40'
TYP.

26.76'
TYP.

NC 903

N 48° 52' 50.2" W
160.69'

-L- POT Sta. 10+00.00

BEGIN CONST. STATE PROJECT WBS # 50138.3.FR24
-L- STA 9+09.58

ROBERT E. TURNER, JR.
M-25 PG 908

PI Sta 16+94.60
Δ = 50° 11' 34.2" (RT)
D = 4° 18' 28.6"
L = 1167.44'
T = 624.33'
R = 1,330.00'

S 11°36'38" W
466.23'

S 08°36'38" W
526.00'

50 25 0 50 100
PLANS

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Version: 01 D05026783

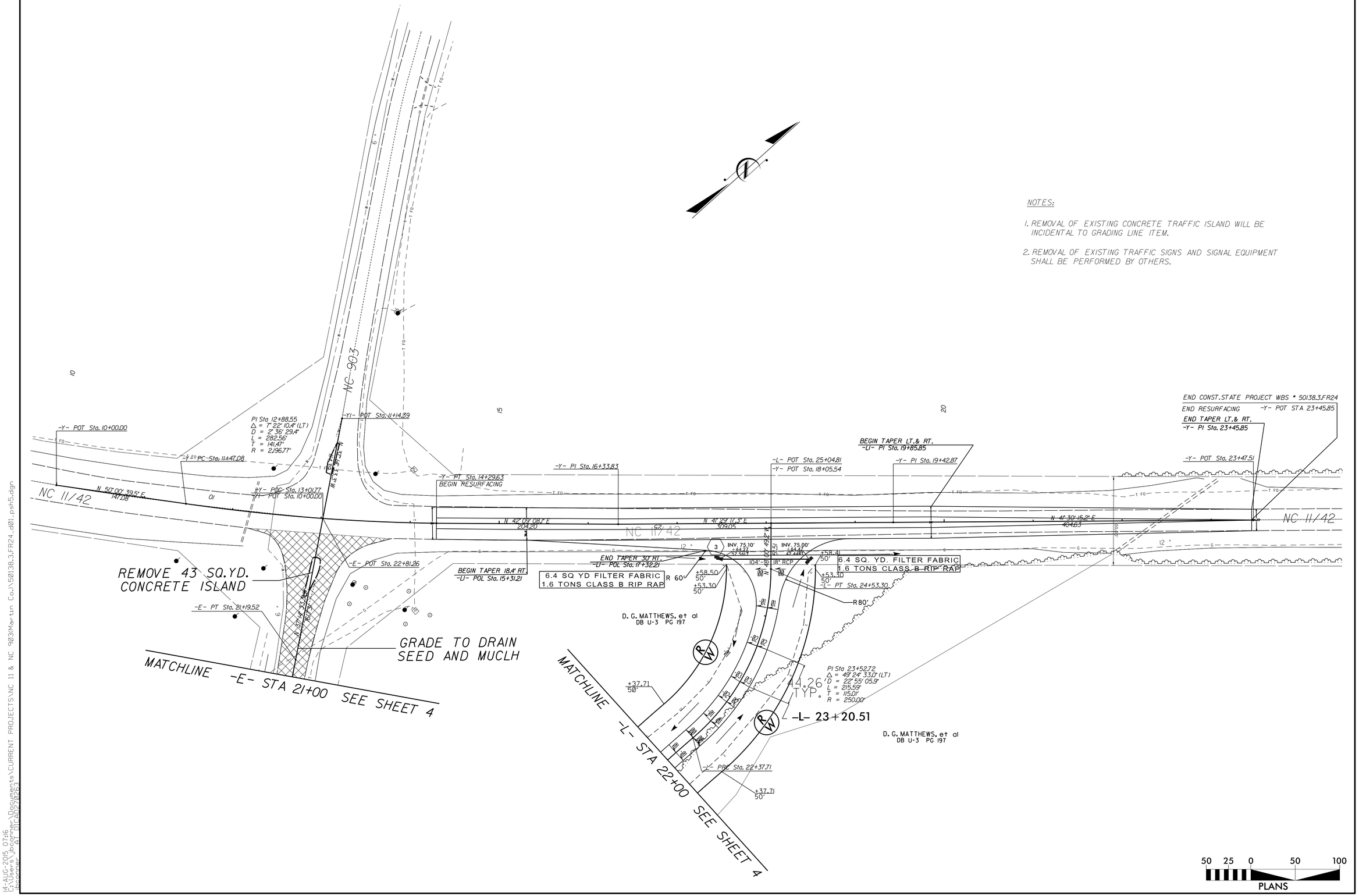
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	5

NOTES:

1. REMOVAL OF EXISTING CONCRETE TRAFFIC ISLAND WILL BE INCIDENTAL TO GRADING LINE ITEM.

2. REMOVAL OF EXISTING TRAFFIC SIGNS AND SIGNAL EQUIPMENT SHALL BE PERFORMED BY OTHERS.



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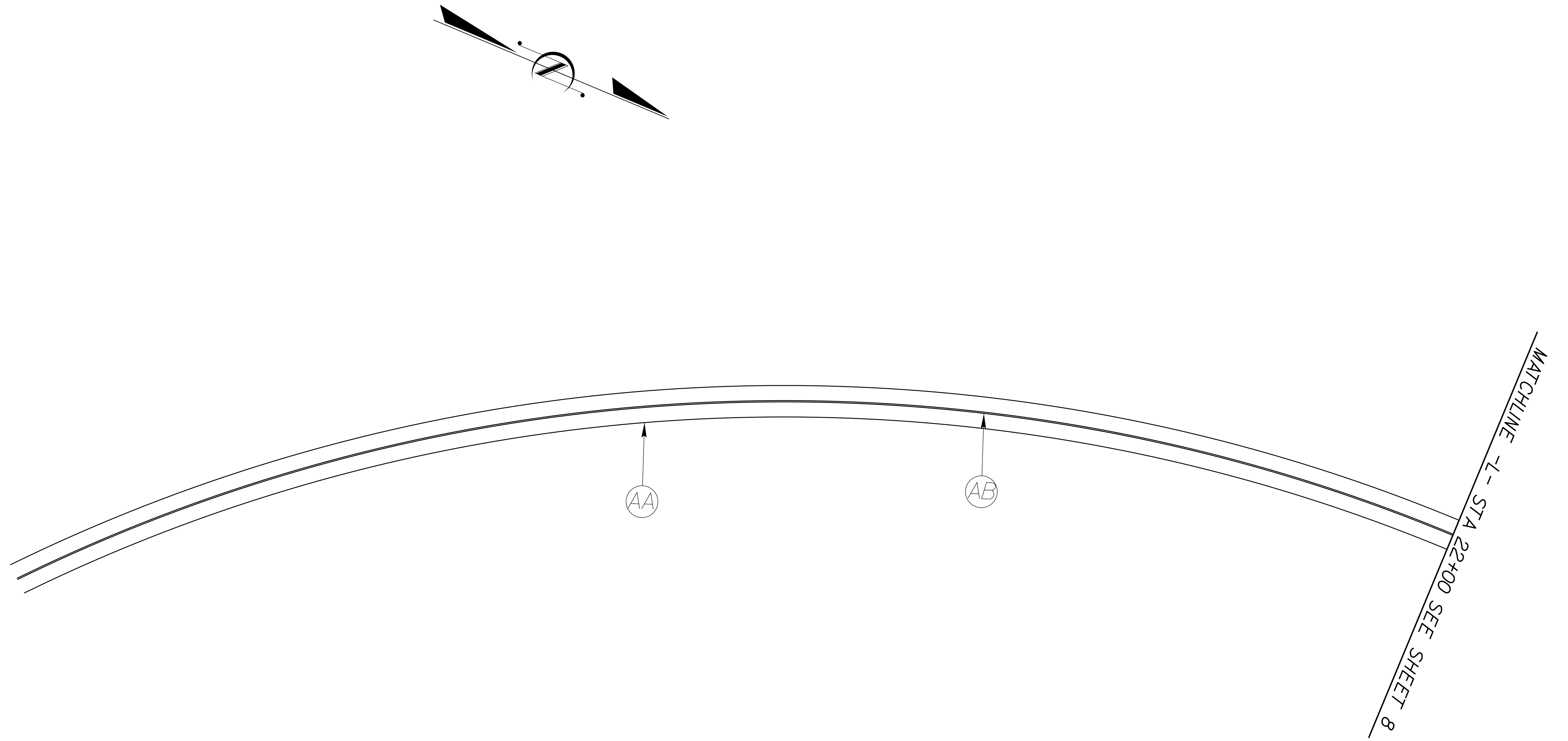
jbeamer
dgn_lib_name


PROJECT REFERENCE NO.
50138.3.FR24
SHEET NO.
6
-L- CENTERLINE
&
DITCH PROFILES
5/28/99
85
75
PI = 18+00.000
El = 75.30
80.14
PI = 21+00.000
El = 77.00
(−)0.2802%
80.00
79.86
79.72
79.58
79.44
79.30
79.16
79.02
(+) 0.5667%
(+) 0.2371%
77.830
78.22
18
19
20
21
22
23
24
(+) 0.2667%
(−) 0.1389%
PI = 18+00.000
El = 75.20
PI = 21+00.000
El = 76.00
75.51
PI = 11+00.000
El = 79.28
82.23
79.48
(−)0.2802%
82.10
81.96
81.82
81.68
81.54
81.40
81.26
81.12
80.98
80.84
80.70
80.56
80.42
80.28
80.14
(−) 0.8000%
(−) 0.2000%
(−) 0.5686%
(−) 0.5257%
78.93
11
12
13
14
15
16
17
18
75.30
75.20
PI = 11+00.000
El = 78.88
14-AUG-2015 07:20

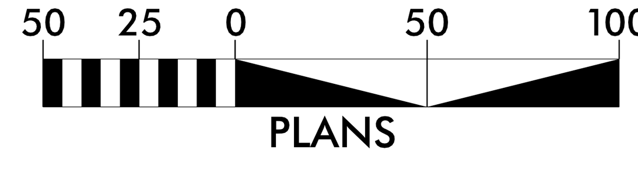
PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	7

PAVEMENT MARKINGS PLAN



PAVEMENT MARKING SCHEDULE

AA	- THERMOPLASTIC	(4" WHITE, 90 MILS)	EDGE LINE
AB	- THERMOPLASTIC	(4" YELLOW, 120 MILS)	SOLID DOUBLE YELLOW



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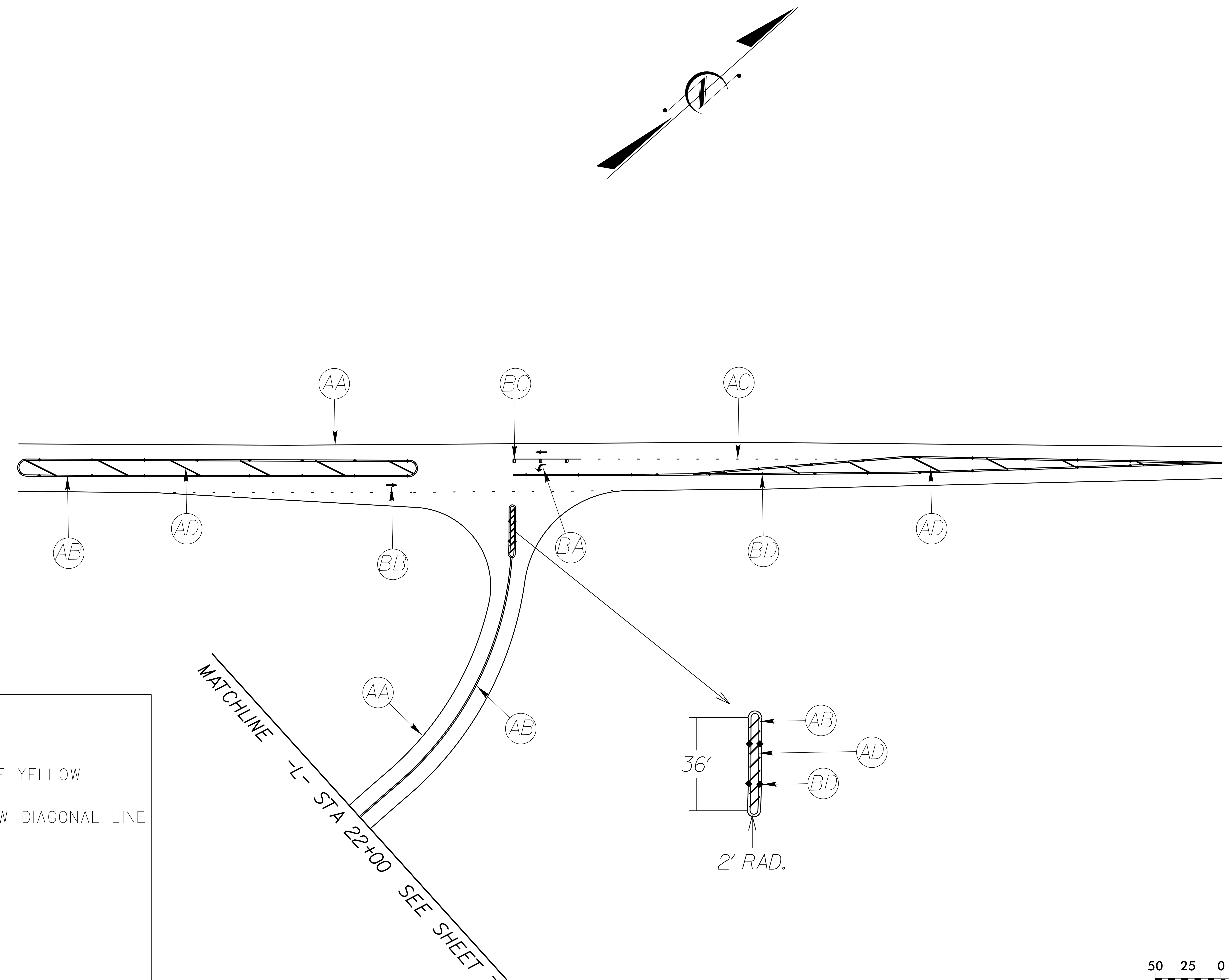
PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	8

PAVEMENT MARKINGS PLAN



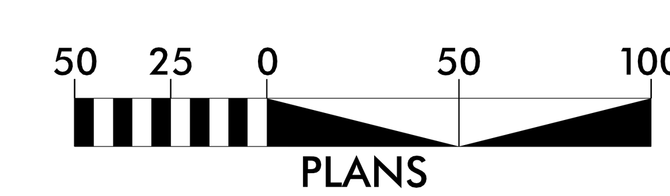
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

AA - THERMOPLASTIC (4" WHITE, 90 MILS) EDGE LINE
AB - THERMOPLASTIC (4" YELLOW, 120 MILS) SOLID DOUBLE YELLOW
AC - THERMOPLASTIC (4" WHITE, 120 MILS) 13' MINI SKIP
AD - THERMOPLASTIC (8" YELLOW, 90 MILS) SOLID YELLOW DIAGONAL LINE

PAVEMENT MARKING SYMBOLS

BA - THERMOPLASTIC (LEFT ARROW, 90 MILS)
BB - THERMOPLASTIC (STRAIGHT ARROW, 90 MILS)
BC - RED AND CRYSTAL RAISED PAVEMENT MARKERS
BD - YELLOW RAISED PAVEMENT MARKERS



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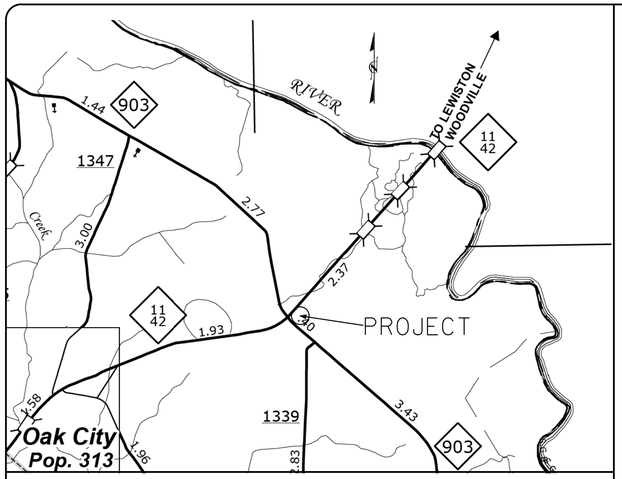
09/08/99

WBS ELEMENT: 50138.3.FR24

CONTRACT: DA00248



VICINITY MAP

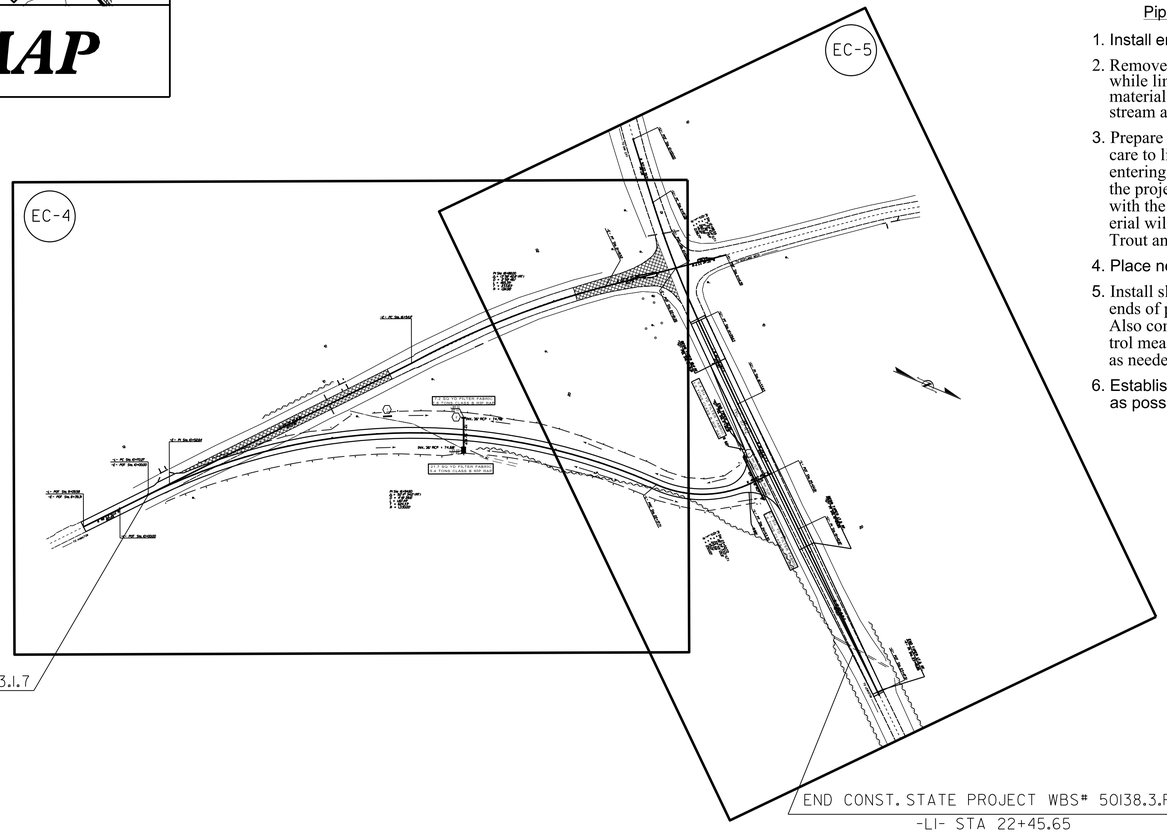
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

MARTIN COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.FR24	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
50138.3.FR24		CONST.	

LOCATION: INTERSECTION OF NC 11 /42 & NC 903

TYPE OF WORK: DRAINAGE, GRADING, BASE & RESURFACING



Pipe Installation Schedule

1. Install erosion control devices per plans.
2. Remove material and existing pipe while limiting, as much as possible, material and sediment from entering the stream and/or escaping from the project.
3. Prepare pipe foundation while taking care to limit material and sediment from entering the stream and/or escaping from the project. Bury the pipe in accordance with the permit. If needed, bedding material will be clean stone (expecially in Trout and HQW waters).
4. Place new pipe and compact fill.
5. Install slope protection on outlet and inlet ends of pipe according to the permit. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.
6. Establish permanent vegetation as soon as possible.

Erosion Control Schedule

1) Install erosion control measures according to plans at all outlets and at other discharge points after clearing but before grubbing.

2) Begin grading of roadway ditches. Place erosion control measures along roadway ditches as grading progresses and conditions allow.

3) Seed and mulch all disturbed areas as soon as any phase of grading is completed. Exposed areas can not lay idle for more than 21 calendar days without being provided adequate groundcover..

4) Clean out and/or rework all temporary erosion control measures after any significant rainfall event (or as otherwise needed). These measures should be maintained until a permanent vegetative cover is established.

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	

GRAPHIC SCALES

25 0 50
PLANS

DESIGNER OF EROSION AND SEDIMENT CONTROL PLANS

S.P. FENWICK

LEVEL III CERTIFICATION NUMBER: 3795

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG–010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:

DIVISION OF HIGHWAYS

113 Airport Dr.
Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

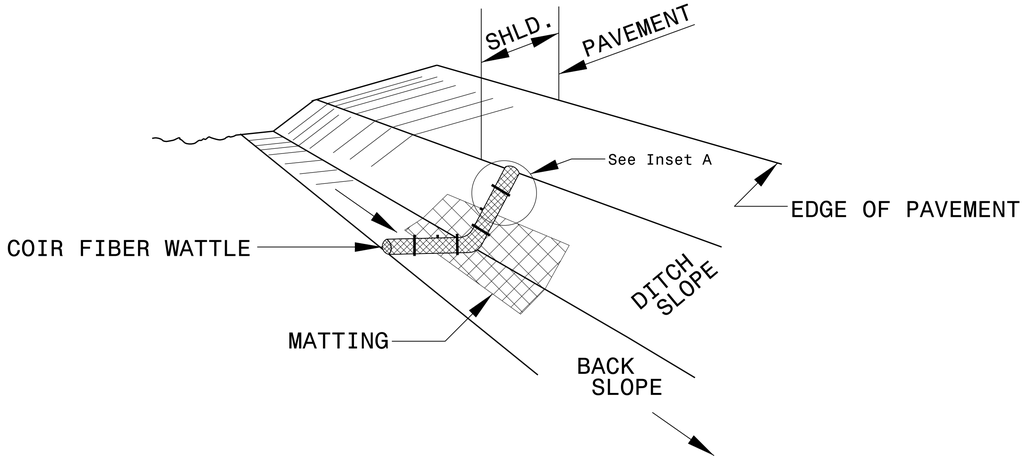
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N.C. Department of Transportation – Raleigh, N.C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

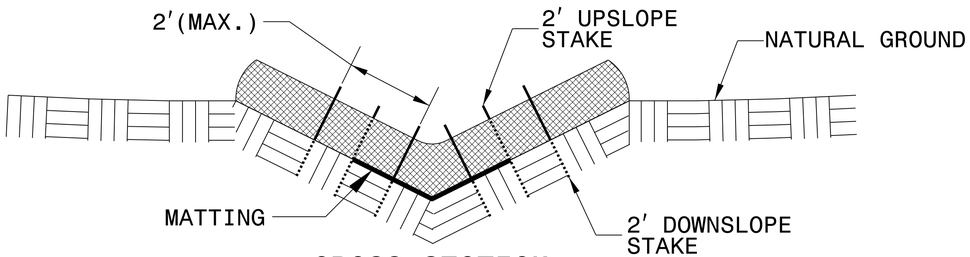
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	EC-2

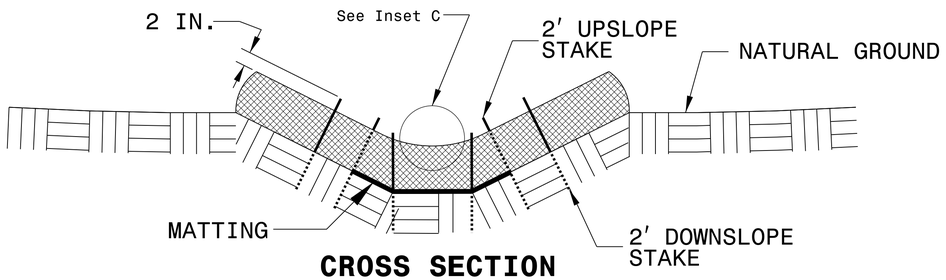
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

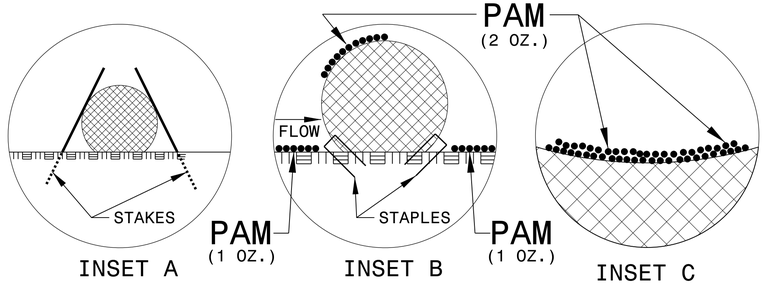
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

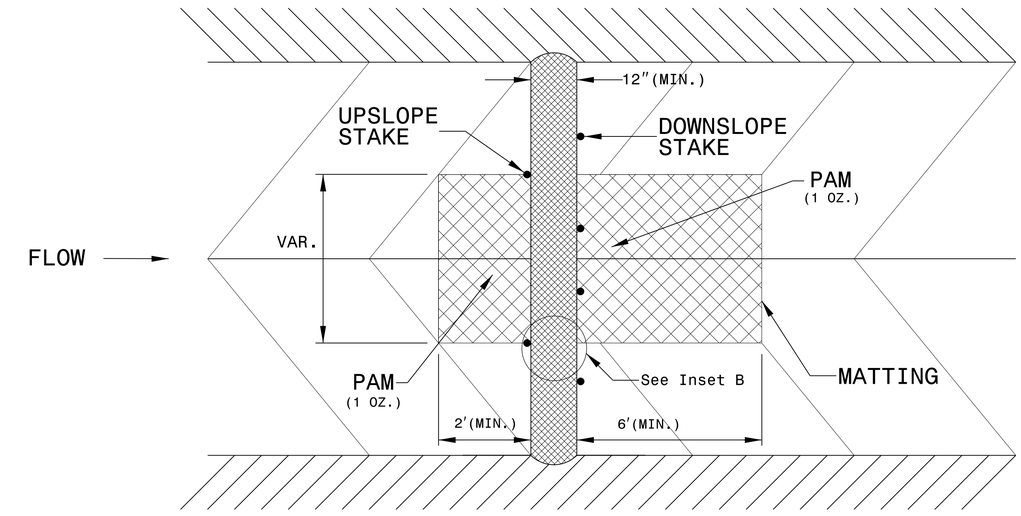
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	EC-3

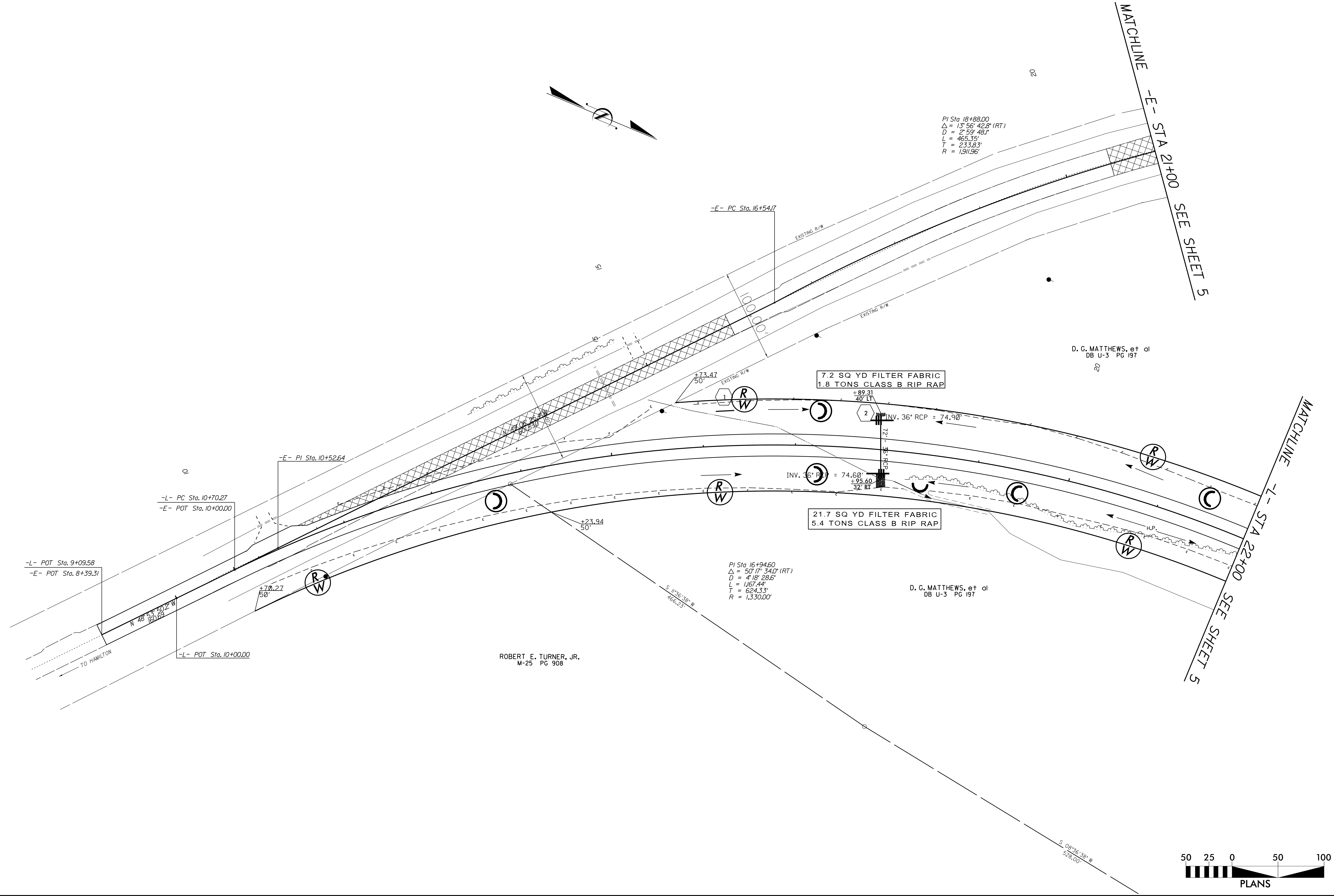
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	EC-4

EROSION CONTROL PLAN



MATCHLINE -E- STA 21+00 SEE SHEET 5
MATCHLINE -L- STA 22+00 SEE SHEET 5
PI Sta 18+88.00
Δ = 13° 56' 42.8" (RT)
D = 2° 59' 48.1"
L = 465.35'
T = 233.83'
R = 1,911.96'
-E- PC Sta. 16+54.17
EXISTING R/W
D. G. MATTHEWS, et al
DB U-3 PG 197
7.2 SQ YD FILTER FABRIC
1.8 TONS CLASS B RIP RAP
+73.47
50'
+89.31
40' LT
INV. 36" RCP = 74.90'
72' - 36" RCP
INV. 36" RCP = 74.60'
+95.60
32' RT
21.7 SQ YD FILTER FABRIC
5.4 TONS CLASS B RIP RAP
-E- PI Sta. 10+52.64
-L- PC Sta. 10+70.27
-E- POT Sta. 10+00.00
-L- POT Sta. 9+09.58
-E- POT Sta. 8+39.31
-L- POT Sta. 10+00.00
TO HAMILTON
+70.27
50'
+23.94
50'
PI Sta 16+94.60
Δ = 50° 17' 34.0" (RT)
D = 4° 18' 28.6"
L = 1,167.44'
T = 624.33'
R = 1,330.00'
D. G. MATTHEWS, et al
DB U-3 PG 197
ROBERT E. TURNER, JR.
M-25 PG 908
S 08°36'38" W
528.00'
50 25 0 50 100
PLANS

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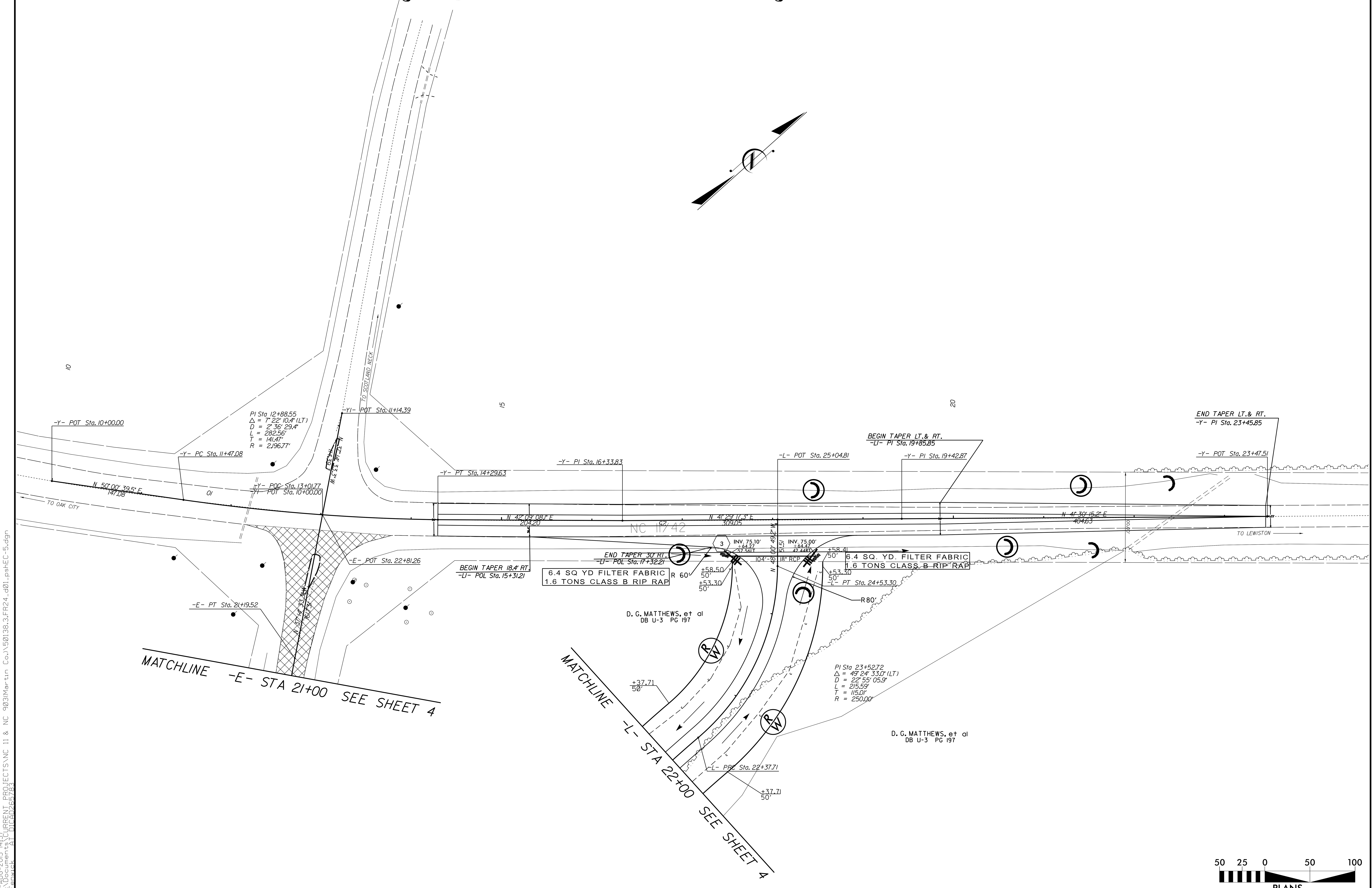
sfenwick AT DICAD26578

PROJECT REFERENCE NO.	SHEET NO.
50138.3.FR24	EC-5

EROSION CONTROL PLAN



-Y- POT Sta. 10+00.00
PI Sta 12+88.55
Δ = 7° 22' 10.4" (LT)
D = 2° 36' 29.4"
L = 282.56'
T = 141.47'
R = 2,196.77'
-Y- PC Sta. 11+47.08
-Y1- POT Sta. 11+14.39
N 50° 00' 39.5" E
147.08
TO OAK CITY
TO SCOTLAND NECK
-Y- PT Sta. 14+29.63
-Y- PI Sta. 16+33.83
N 42° 03' 08.1" E
204.20
N 41° 29' 17.3" E
309.05
NC 11/42
-L- POT Sta. 25+04.81
BEGIN TAPER LT. & RT.
-LI- PI Sta. 19+85.85
-Y- PI Sta. 19+42.87
END TAPER LT. & RT.
-Y- PI Sta. 23+45.85
-Y- POT Sta. 23+47.51
N 41° 30' 15.2" E
464.63
TO LEWISTON
END TAPER 30' RT.
-LI- POL Sta. 17+32.21
BEGIN TAPER 18.4' RT.
-LI- POL Sta. 15+31.21
6.4 SQ YD FILTER FABRIC
1.6 TONS CLASS B RIP RAP
6.4 SQ. YD. FILTER FABRIC
1.6 TONS CLASS B RIP RAP
R 60'
R 80'
-E- POT Sta. 22+81.26
-E- PT Sta. 21+19.52
-L- PT Sta. 24+53.30
-L- PRC Sta. 22+37.71
D. G. MATTHEWS, et al
DB U-3 PG 197
PI Sta 23+52.72
Δ = 49° 24' 33.0" (LT)
D = 22° 55' 05.9"
L = 215.59'
T = 115.01'
R = 250.00'
D. G. MATTHEWS, et al
DB U-3 PG 197
MATCHLINE -E- STA 21+00 SEE SHEET 4
MATCHLINE -L- STA 22+00 SEE SHEET 4
50 25 0 50 100
PLANS

8/17/99

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PROJ. REFERENCE NO.	SHEET NO.
50138.3.FR24	X-1A

Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the lump sum price for "Grading".

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station Y	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
11+00.00	0	0	14+50.00	0	0
11+50.00	44	16	15+00.00	0	12
12+00.00	68	17	15+31.21	0	9
12+50.00	100	20	15+50.00	0	4
13+00.00	133	22	16+00.00	5	10
13+50.00	165	29	16+33.83	7	10
14+00.00	193	45	16+50.00	6	5
14+50.00	191	47	17+00.00	31	20
15+00.00	186	30	17+32.21	30	15
15+50.00	237	12	17+50.00	14	8
16+00.00	267	7	18+00.00	18	24
16+50.00	291	18	18+50.00	25	23
17+00.00	368	46	18+93.18	29	19
17+50.00	407	47	19+42.87	17	25
18+00.00	380	15	20+00.00	8	26
18+50.00	365	1	20+50.00	7	18
19+00.00	370	0	21+00.00	6	16
19+50.00	365	0	21+50.00	5	14
20+00.00	367	0	22+00.00	6	11
20+50.00	359	0	22+50.00	6	10
21+00.00	335	0	22+65.70	2	2
21+50.00	306	0			
22+00.00	288	0			
22+50.00	287	0			
23+00.00	283	0			
23+50.00	311	0			
24+00.00	352	0			
24+50.00	358	0			

8/23/99

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8/23/99

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PROJ. REFERENCE NO.	SHEET NO.
50138.3.FR24	X-2

8/23/99

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PROJ. REFERENCE NO.	SHEET NO.
50138.3.FR24	X-6

8/23/99

PROJ. REFERENCE NO.
50138.1.FR24
SHEET NO.
X-7
0 2.5 5
16+00.00
79.85
78.05
4:1
4:1 3:1
15+50.00
80.12
15+31.21
80.23
15+00.00
80.45
14+50.00
80.86
14+29.63
81.05
-Y-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	50138.1.FR24	X-8

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	50138.1.FR24	X-9